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APPLICATION NO.	F	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/766,769		01/28/2004	Peter Heiligensetzer	71278	3236	
23872	7590	10/26/2005		EXAMINER		
MCGLEW		ΓLE, PC	NOORI,	NOORI, MAX H		
P.O. BOX 9227 SCARBOROUGH STATION				ART UNIT	PAPER NUMBER	
SCARBORG	SCARBOROUGH, NY 10510-9227					
				DATE MAILED: 10/26/200	DATE MAILED: 10/26/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/766,769	HEILIGENSETZER ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Max Noori	2855				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status							
, 1)⊠	Responsive to communication(s) filed on <u>06 Se</u>	eptember 2005.					
,	This action is FINAL. 2b) ☐ This action is non-final.						
3)							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
5) 6) 7)	Claim(s) <u>21-40</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>21-27</u> , <u>29-39</u> is/are rejected. Claim(s) <u>21-29 and 40</u> is/are objected to. Claim(s) are subject to restriction and/o	wn from consideration.					
Applicati	ion Papers						
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) according a specific and a specific and a specific according to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine	epted or b) objected to by the liderawing(s) be held in abeyance. See tion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).				
Priority u	ınder 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) Notice 3) Information	t(s) te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) ter No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:					

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 21-29 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 20-21 are written in poor language. For example in claim 20, it is unclear as what is actual measured value, isn't the strain gauge measurement actual? What is transformation, what kind of transformation, or transformation to where? What is interference freedom, what is expected and what is unexpected event?

Regarding claim 22, how a measured value is being detected. Isn't measuring, in this context, the same as detecting. The recitation of comparison of terms such as first or second measured quantities, measured value, measured results are enormously confusing. Examiner believes that the invention concept can be recited in much more plain language than the current puzzling one.

In a method claim, the method steps are to be clearly, and orderly specified one by one in a positive language reciting the accomplishment of the clamed method task.

The following action is based on the examinee's best interpretation of the claim language in that the strain of a machine element or a robot is being compared with some reference values.

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Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 21-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Parker U.S. Patent No. 4,783,107.

Regarding claim 21, 27 and 30-31, 36, Parker discloses a method and apparatus for controlling impact force during robot object acquisition with features of the claimed invention including impact or collision sensing means to measure the strain of a robot hand (see for, example claim 9) and comparing the signal with that of a predetermined threshold level (see, for example claim 4).

Regarding claims 23, 32, it appears that strain gauges are generally transducers.

Regarding claims 24, 33, it appears that a strain is generally measured by some kind of strain gauge.

Regarding claims 26, 35, it appears that strain gauges are placed on the robots hand surface.

Regarding claims 29, 38-39 the robot has provision in braking and stopping upon related values (see, for example, claim 1 or col. 11, line 45).

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Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 25 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Parker.

Parker does not elaborate on the nature of the strain gauge, however, since the strange gauges come in various kind and shape, it would have been obvious for a skilled artisan at the time of the invention to modify Parker to use any kind of desirable strain measuring device such as piezoelectric or optical one which are very commonly used.

7. Claim 40 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Amendment

- 8. Applicant's amendment and arguments filed 9/6/05 have been fully considered but they are most in view of the new ground of rejection.
- 9. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, THIS ACTION IS MADE FINAL. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for response to this final action is set to expire THREE MONTHS from the date of this action. In the event a first response is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event will the statutory period for response expire later than SIX MONTHS from the date of this final action.

- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Max H. Noori whose telephone number is (571) 272-2185. The examiner can normally be reached on Tuesday-Friday from 8:00 AM to 6:00 PM.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-2800. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. The central fax number is (703) 827-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MHN Friday, October 21, 2005

> MAX NOORI PRIMARY EXAMINER